

# Take humanitarian Action!

## Transform humanitarian assistance and support in disaster areas!

### What to deliver:

Content: a two-minutes pitch containing:

- Propose solution to case
- How does AM contribute
- Elements from the three learning sessions
  - Design
  - Technology
  - Sustainable business models

Format: Two pages with proposal

- Preferable flip-overs, visual slides etc.
- Please use models and visual tools to show your proposal

### Background information:

We are confronted with some of the biggest challenges in our lifetime. Last year 167.6 million humans needed humanitarian aid. This represents about one out of 45 in the whole world and was the highest number in this decade. This year, the covid pandemic has brought unforeseen shocks and changes for both humans and societies. Implications from covid-19 restrictions have resulted in big barriers for international protective equipment and other gear to be accessible and able to be distributed to disaster areas. Many of the world's most vulnerable humans is them, which are most affected, when their homes are ruined by natural disasters, or the essential needs are suddenly taken away. This could be food or infrastructure.

There is already done a great amount of work to strengthen supply chains in such areas, which are specially exposed. Disruptive technologies, such as Additive Manufacturing, can play a crucial role on strengthening the supply chains even more and reduce the risk of humanitarian disasters.



**CONNECTING  
BUSINESS**  
INITIATIVE



**Danish  
AM Hub**

To achieve UN's sustainable development goals, we need to re-think the way we solve some of the challenges in disaster areas. In collaboration with UN's initiative Connecting Businesses, we kindly ask you to focus on below question:

- How can you use Additive Manufacturing to solve a challenge relevant in disaster areas?

Please bring your proposal on, how you by using Additive Manufacturing and its opportunities can design a solution to disaster areas. You are more than welcome to use one or more of the strategic lifters.

Below you can find three current challenges within sustainability and Additive Manufacturing. If you want to, you can take your starting point here.

**Infrastructure:**

When the disaster hits, most often the supply chain will be completely broken. The consequence is, that it can be extremely difficult to transport emergency aid to the areas when needed. How can AM strengthen the supply chain in situations like this?

**The unexpected:**

It can be difficult to assess, how and when a disaster will hit. Due to this, it is hard to prepare the necessary material emergency aid as you do not know the disaster. How can AM reduce this uncertainty?

**The pandemic**

The covid-19 pandemic is an example of how a new phenomenon demand new emergency aid (face shields, masks, etc). It is necessary to have a high degree of flexibility in situations like those. Can you establish a new system or model, which can accommodate this?

## AM-TECHNOLOGY AS A STRATEGIC LIFTER

Use one or more of these lifters as inspiration in your proposal



AM can customize products to the customer's need – 1 size fits 1



AM can move the production to the customer's location and thereby offer great flexibility to the customer



AM can "activate" the customer in the design- and test phase of the product development



AM can create new unique collaboration models and partnerships (design, production, digital fabrication)

